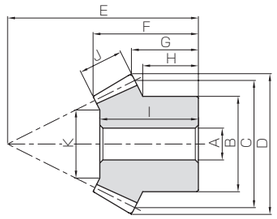
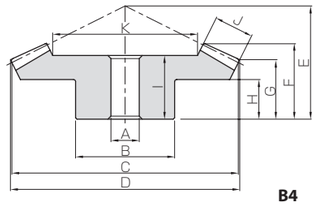
Specifications	
Precision grade	JIS B 1704 : 1978 grade 4 ＊
Gear teeth	Gleason
Pressure angle	20°
Material	MC901
Heat treatment	—
Tooth hardness	(115 ～ 120HRR)

＊ The precision grade of this product is equivalent to the value shown in the table.



B3



B4

Catalog No.	Gear ratio	Module	No. of teeth	Shape	Bore A	Hub dia. B	Pitch dia. C	Outside dia. D	Mounting distance E	Total length F	Crown to back length G	Hub width H
KPB1.5-3020	1.5	***m*1.5**	30	B4	10	30	45	46.24	28	18.53	13.93	8
KPB1.5-2030			20	B3	8	25	30	33.13	33	18.63	11.54	8.83
KPB2-3020		***m*2**	30	B4	10	35	60	61.65	40	26.87	21.24	15
KPB2-2030			20	B3	10	35	40	44.18	45	25.06	16.39	13.33
KPB2.5-3020		***m*2.5**	30	B4	15	45	75	77.07	50	34.22	26.55	18
KPB2.5-2030			20	B3	12	40	50	55.22	55	31.06	19.24	14.16
KPB3-3020		***m*3**	30	B4	15	60	90	92.48	55	35.56	26.86	17
KPB3-2030			20	B3	15	50	60	66.27	70	40.48	27.09	21.66
KPB1-4020	2	***m*1**	40	B4	8	25	40	40.59	22	15.07	12.59	8
KPB1-2040			20	B3	6	16	20	22.41	28	13.78	8.6	7
KPB1.25-4020		***m*1.25**	40	B4	10	32	50	50.73	27	18.54	15.23	10
KPB1.25-2040			20	B3	8	22	25	28.01	36	18.66	11.75	10.25
KPB1.5-4020		***m*1.5**	40	B4	10	38	60	60.88	35	25.01	20.88	15
KPB1.5-2040			20	B3	8	25	30	33.61	46	25.54	16.9	14.75
KPB2-4020		***m*2**	40	B4	12	40	80	81.17	45	32.37	26.17	18
KPB2-2040			20	B3	12	32	40	44.81	60	34.16	21.2	18
KPB2.5-4020		***m*2.5**	40	B4	15	50	100	101.47	55	39.73	31.47	20
KPB2.5-2040			20	B3	12	40	50	56.01	75	43.78	26.5	22.5
KPB3-4020		***m*3**	40	B4	20	60	120	121.76	65	45.85	36.76	24
KPB3-2040			20	B3	16	50	60	67.22	90	50.81	31.8	27.5
KPB1.5-4515	3	***m*1.5**	45	B4	10	40	67.5	68.06	28	20.44	17.59	11
KPB1.5-1545			15	B3	8	18	22.5	26.54	47	23.19	13.92	12.5
KPB2-4515		***m*2**	45	B4	12	60	90	90.75	40	30.4	26.12	17
KPB2-1545			15	B3	10	24	30	35.35	60	29.8	15.89	14
KPB2.5-4515		***m*2.5**	45	B4	15	60	112.5	113.43	50	38.35	32.65	22
KPB2.5-1545			15	B3	12	30	37.5	44.18	75	38.41	19.86	17.5
KPB3-4515		***m*3**	45	B4	20	80	135	136.12	55	40.74	34.18	20
KPB3-1545			15	B3	15	38	45	53.02	90	45.17	23.84	21.33

Length of bore I	Face width J	Holding surface dia. K	Allowable torque (N·m) Bending strength	Allowable torque (N·m) Surface durability	Allowable torque (kgf·m) Bending strength	Allowable torque (kgf·m) Surface durability	Backlash (mm)	Weight (kg)	Catalog No.
16	9	27.37	1.61	—	0.16	—	0~0.25	0.018	**KPB1.5-3020**
17		17.05	0.87		0.089			0.0093	**KPB1.5-2030**
23	11	37.56	3.65	—	0.37	—	0~0.26	0.039	**KPB2-3020**
22		21.34	1.97		0.20			0.024	**KPB2-2030**
30	15	45.61	7.46	—	0.76	—	0~0.27	0.081	**KPB2.5-3020**
28		27.42	4.04		0.41			0.042	**KPB2.5-2030**
31	17	57.14	12.5	—	1.28	—	0~0.28	0.14	**KPB3-3020**
37		34.71	6.77		0.69			0.082	**KPB3-2030**
12	6	26.58	0.74	—	0.075	—	0~0.23	0.010	**KPB1-4020**
12		9.17	0.28		0.028			0.0029	**KPB1-2040**
16	8	33.61	1.50	—	0.15	—	0~0.24	0.021	**KPB1.25-4020**
17		13.22	0.56		0.058			0.0068	**KPB1.25-2040**
22	10	39.64	2.66	—	0.27	—	0~0.25	0.039	**KPB1.5-4020**
24		17.28	1.00		0.10			0.013	**KPB1.5-2040**
27	15	48.46	6.72	—	0.69	—	0~0.26	0.076	**KPB2-4020**
32		20.92	2.52		0.26			0.028	**KPB2-2040**
35	20	60.28	13.5	—	1.38	—	0~0.27	0.16	**KPB2.5-4020**
41		24.56	5.08		0.52			0.060	**KPB2.5-2040**
38	22	73.81	22.4	—	2.29	—	0~0.28	0.25	**KPB3-4020**
47		29.61	8.42		0.86			0.10	**KPB3-2040**
17	10	46.58	3.18	—	0.32	—	0~0.25	0.040	**KPB1.5-4515**
22.5		14.75	0.68		0.070			0.0061	**KPB1.5-1545**
26	15	59.04	8.07	—	0.82	—	0~0.26	0.12	**KPB2-4515**
29		19.13	1.73		0.18			0.014	**KPB2-1545**
35	20	72.84	16.3	—	1.66	—	0~0.27	0.20	**KPB2.5-4515**
37		20.51	3.50		0.36			0.028	**KPB2.5-1545**
35	23	88.18	27.6	—	2.81	—	0~0.28	0.35	**KPB3-4515**
43		22.54	5.92		0.60			0.050	**KPB3-1545**

[Caution on Product Characteristics]
① Significant variations in temperature or humidity can cause dimensional changes in plastic gears (MC Nylon gears), including bore size (H8 when produced), tooth diameter, and backlash. Please see the section "Design of Plastic Gears" in separate technical reference book. (Page 101).
② The allowable torques shown in the table are calculated values according to the assumed usage conditions. Please see page 303 for more details.
③ Dimensions of the outside diameter, the overall length and crown to back length are all theoretical values, and some differences will occur due to the corner chamfering of the gear tips.
④ Without lubrication, using plastic gears in pairs may generate heat and dilation. It is recommended to mate them with steel gears.

[Caution on Secondary Operations]
① Please read "Caution on Performing Secondary Operations" (Page 304) when performing modifications and/or secondary operations for safety concerns.
② Plastic gears are susceptible to the effects of temperature and moisture. Dimensional changes may occur while performing secondary operations and during post-machining operations.

＊ In regards to KMC Nylon gears, other materials are available, including Ultra High Molecular Weight Polyethylene (UHMW-PE), which has excellent abrasion resistance, and resin conforming to the Plastic Implementation Measure (PIM). A single piece order is acceptable and will be produced as a custom-made gear. For details on quotations and orders please Contact QTC.